

RAW SEQUENCE LISTING

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Application Serial Number: 10/528,948
Source: PCT
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DATE: 08/03/2005

PATENT APPLICATION: US/10/528,948

TIME: 13:57:54

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1 <110> APPLICANT: THE GENERAL HOSPITAL CORPORATION
2   SHELLEY, CARL SIMON
3   FAROKHZAD, OMID C.
4 <120> TITLE OF INVENTION: METHODS FOR DIAGNOSING AND TREATING TUMORS AND SUPPRESSING
5   PROMOTERS
6 <130> FILE REFERENCE: M00765.70064
7 <140> CURRENT APPLICATION NUMBER: 10/528,948
8 <141> CURRENT FILING DATE: 2005-03-23
9 <150> PRIOR APPLICATION NUMBER: PCT/US03/30213
10 <151> PRIOR FILING DATE: 2003-09-23
11 <150> PRIOR APPLICATION NUMBER: US 60/412,964
12 <151> PRIOR FILING DATE: 2002-09-23
13 <160> NUMBER OF SEQ ID NOS: 28
14 <170> SOFTWARE: PatentIn version 3.2
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18 <212> TYPE: DNA
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25   caagtgaacc taaggccgac agcactgggg accagacctc agccctacct ccttcaactt      300
26   ccatcaatga gggatcccc ctittggactt ccattggtgc cagcactggt tcccctttac      360
27   ctgagccaac aacctaccag gaagtttcca tcaagatgtc atcagtgcc caggaaaccc      420
28   ctcatgcaac cagtcctcct gctgttccca taacagcaaa ctctctagga tcccacaccg      480
29   tgacaggtgg aaccataaca acgaactctc cagaaacctc cagtaggacc agtggagccc      540
30   ctgttaccac ggcagctagc tctctggaga cctccagagg cacctctgga ccccctctta      600
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32   caactgactc tctggagacc tccactggga cactggacc ccctgttacc atgacaactg      720
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35   agaactcacg aggcattgctg ccagtggctg tgcttgtggc cctgctggcg gtcatagtcc      900
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47      ggcacccacc accatgcccc gctgcttttt tgtatttttg gtagagatgg ggtttcacca      1620
48      tgttggctag gctgggtctca aactcctgac ctcaggtgat ctacctgcct cagcctccca      1680
49      aagtgtctgag attacagaca tgagcctccg cgccttgccct cctcaccacac ctcttcactc      1740
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62      20                    25                    30
63      Leu Val Ser Thr Ser Glu Pro Leu Ser Ser Lys Met Tyr Thr Thr Ser
64      35                    40                    45
65      Ile Thr Ser Asp Pro Lys Ala Asp Ser Thr Gly Asp Gln Thr Ser Ala
66      50                    55                    60
67      Leu Pro Pro Ser Thr Ser Ile Asn Glu Gly Ser Pro Leu Trp Thr Ser
68      65                    70                    75                    80
69      Ile Gly Ala Ser Thr Gly Ser Pro Leu Pro Glu Pro Thr Thr Tyr Gln
70      85                    90                    95
71      Glu Val Ser Ile Lys Met Ser Ser Val Pro Gln Glu Thr Pro His Ala
72      100                   105                   110
73      Thr Ser His Pro Ala Val Pro Ile Thr Ala Asn Ser Leu Gly Ser His
74      115                   120                   125
75      Thr Val Thr Gly Gly Thr Ile Thr Thr Asn Ser Pro Glu Thr Ser Ser
76      130                   135                   140
77      Arg Thr Ser Gly Ala Pro Val Thr Thr Ala Ala Ser Ser Leu Glu Thr
78      145                   150                   155                   160
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81      Glu Thr Ser Lys Gly Thr Ser Gly Pro Pro Val Thr Met Ala Thr Asp
82      180                   185                   190
83      Ser Leu Glu Thr Ser Thr Gly Thr Thr Gly Pro Pro Val Thr Met Thr
84      195                   200                   205
85      Thr Gly Ser Leu Glu Pro Ser Ser Gly Ala Ser Gly Pro Gln Val Ser
86      210                   215                   220
87      Ser Val Lys Leu Ser Thr Met Met Ser Pro Thr Thr Ser Thr Asn Ala
88      225                   230                   235                   240
89      Ser Thr Val Pro Phe Arg Asn Pro Asp Glu Asn Ser Arg Gly Met Leu
90      245                   250                   255
91      Pro Val Ala Val Leu Val Ala Leu Leu Ala Val Ile Val Leu Val Ala
92      260                   265                   270
93      Leu Leu Leu Leu Trp Arg Arg Arg Gln Lys Arg Arg Thr Gly Ala Leu
94      275                   280                   285

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99      Gly Ser Gly Gly Asp Lys Gly Ser Gly Phe Pro Asp Gly Glu Gly Ser
100                      325                      330                      335
101      Ser Arg Arg Pro Thr Leu Thr Thr Phe Phe Gly Arg Arg Lys Ser Arg
102                      340                      345                      350
103      Gln Gly Ser Leu Ala Met Glu Glu Leu Lys Ser Gly Ser Gly Pro Ser
104                      355                      360                      365
105      Leu Lys Gly Glu Glu Glu Pro Leu Val Ala Ser Glu Asp Gly Ala Val
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110 <210> SEQ ID NO: 3

111 <211> LENGTH: 1893

112 <212> TYPE: DNA

113 <213> ORGANISM: Homo sapiens

114 <400> SEQUENCE: 3

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117      agtgcagaca cccacctcgg gagagccttt ggtctctact agcgagcccc tgagctcaaa      180
118      gatgtacacc acttcaataa caagtgaccc taaggccgac agcactgggg accagacctc      240
119      agccctacct cctcaactt ccatcaatga gggatccct ctttggactt ccattgggtgc      300
120      cagcactggt tccccctttac ctgagccaac aacctaccag gaagtttcca tcaagatgtc      360
121      atcagtcccc caggaaaccc ctcatgcaac cagtcacct gctgttccca taacagcaaa      420
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124      cacctctgga cccctcttta ccatggcaac tgtctctctg gagacttcca aaggcacctc      600
125      tggacccctt gttaccatgg caactgactc tctggagacc tccactggga ccactggacc      660
126      cctgtttacc atgacaactg gctctctgga gccctccagc ggggccaagt gaccccaggt      720
127      ctctagcgta aaactatcta caatgatgtc tccaacgacc tccaccaacg caagcactgt      780
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132      gggcgacaag ggctctgggt tccccgatgg ggaggggtct agccgtcggc ccacgctcac      1080
133      cactttcttt ggcagacgga agtctcgcca gggctccctg gcgatggagg agctgaagtc      1140
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155      Ala Leu Gly Ser Thr Thr Ala Val Gln Thr Pro Thr Ser Gly Glu Pro
156      20          25          30
157      Leu Val Ser Thr Ser Glu Pro Leu Ser Ser Lys Met Tyr Thr Thr Ser
158      35          40          45
159      Ile Thr Ser Asp Pro Lys Ala Asp Ser Thr Gly Asp Gln Thr Ser Ala
160      50          55          60
161      Leu Pro Pro Ser Thr Ser Ile Asn Glu Gly Ser Pro Leu Trp Thr Ser
162      65          70          75          80
163      Ile Gly Ala Ser Thr Gly Ser Pro Leu Pro Glu Pro Thr Thr Tyr Gln
164      85          90          95
165      Glu Val Ser Ile Lys Met Ser Ser Val Pro Gln Glu Thr Pro His Ala
166      100         105         110
167      Thr Ser His Pro Ala Val Pro Ile Thr Ala Asn Ser Leu Gly Ser His
168      115         120         125
169      Thr Val Thr Gly Gly Thr Ile Thr Thr Asn Ser Pro Glu Thr Ser Ser
170      130         135         140
171      Arg Thr Ser Gly Ala Pro Val Thr Thr Ala Ala Ser Ser Leu Glu Thr
172      145         150         155         160
173      Ser Arg Gly Thr Ser Gly Pro Pro Leu Thr Met Ala Thr Val Ser Leu
174      165         170         175
175      Glu Thr Ser Lys Gly Thr Ser Gly Pro Val Thr Met Ala Thr Asp
176      180         185         190
177      Ser Leu Glu Thr Ser Thr Gly Thr Thr Gly Pro Pro Val Thr Met Thr
178      195         200         205
179      Thr Gly Ser Leu Glu Pro Ser Ser Gly Ala Ser Gly Pro Gln Val Ser
180      210         215         220
181      Ser Val Lys Leu Ser Thr Met Met Ser Pro Thr Thr Ser Thr Asn Ala
182      225         230         235         240
183      Ser Thr Val Pro Phe Arg Asn Pro Asp Glu Asn Ser Arg Gly Met Leu
184      245         250         255
185      Pro Val Ala Val Leu Val Ala Leu Leu Ala Val Ile Val Leu Val Ala
186      260         265         270
187      Leu Leu Leu Leu Trp Arg Arg Arg Gln Lys Arg Arg Thr Gly Ala Leu
188      275         280         285
189      Val Leu Ser Arg Gly Gly Lys Arg Asn Gly Val Val Asp Ala Trp Ala
190      290         295         300
191      Gly Pro Ala Gln Val Pro Glu Glu Gly Ala Val Thr Val Thr Val Gly
192      305         310         315         320
193      Gly Ser Gly Gly Asp Lys Gly Ser Gly Phe Pro Asp Gly Glu Gly Ser
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195      Ser Arg Arg Pro Thr Leu Thr Thr Phe Phe Gly Arg Arg Lys Ser Arg
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197      Gln Gly Ser Leu Ala Met Glu Glu Leu Lys Ser Gly Ser Gly Pro Ser
198                355                360                365
199      Leu Lys Gly Glu Glu Glu Pro Leu Val Ala Ser Glu Asp Gly Ala Val
200                370                375                380
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VERIFICATION SUMMARY

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